

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION MAY 2023
(Fifth Semester)

Branch – SOFTWARE SYSTEMS (Five year integrated)

SOFTWARE QUALITY ASSURANCE & SOFTWARE TESTING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

SECTION II (Q)

ALL questions carry **EQUAL** marks $(10 \times 1 = 10)$

Cont.

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 5 = 25)

11. a. Explain the activities covered by software project management.
(OR)
b. Analyze the management control process.
12. a. Discuss the waterfall model for system development.
(OR)
b. Interpret in detail about software prototyping.
13. a. Illustrate the procedural code-oriented approach for software effort estimation.
(OR)
b. Using a bar chart, prepare a project plan for scheduling and sequencing activities.
14. a. Compare the aspects of product quality with process quality management.
(OR)
b. Analyze the components of quality plan.
15. a. Explain the phases of software project.
(OR)
b. Discuss the different types of code coverage testing.

SECTION - C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 8 = 40)

Question no. 16 is compulsory

16. For a case study example, design a framework for stepwise project planning.
17. a. Determine the several risk evaluation methods for a project.
(OR)
b. Justify the various cost-benefit evaluation techniques.
18. a. Discuss about
 - (i). The objectives of activity planning
 - (ii). Project schedules**(OR)**
b. Use an appropriate example and determine the forward pass, backward pass and critical path for a CPM network.
19. a. Assess the quality factors of ISO 9126.
(OR)
b. Elucidate the different techniques to enhance software quality.
20. a. Enumerate the methodology for performance testing.
(OR)
b. Interpret the different black box testing approaches.